

# EASTERN MUNICIPAL WATER DISTRICT

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## EMWD Water Filtration Plants

The main objective of treating water is to provide clean, safe drinking water to customers.

EMWD operates two fresh water filtration plants—one in Perris and one in Hemet.

EMWD uses advanced treatment processes with the latest technologies—ultrafiltration and ultraviolet (UV) light disinfection—to maximize safety while reducing costs and protecting the environment.

Ultrafiltration is a membrane filtration process where water must pass through tiny pores in several layers of materials. The pores in the fiber are so small that impurities and bacteria in the raw water are too large to pass through.

UV disinfection is a treatment process where water is exposed to a network of lamps that emit UV light, essentially killing any remaining organisms left in the water after the ultrafiltration process. While there are no known organisms that are resistant to UV disinfection, EMWD still uses a minimal amount of chlorine as an added disinfection method to assure all water delivered to consumers is clean and safe for drinking.

The Perris Water Filtration Plant has a capacity of 24 million gallons a day. This ultrafiltration plant utilizes membrane technology and ultraviolet light disinfection to treat raw water from the Colorado River and from the SWP to produce drinking water.

The Hemet Water Filtration Plant is an ultrafiltration facility using membrane technology to treat unfiltered raw water from the State Water Project (SWP) from Northern California to produce drinking water. This plant has a capacity of 12 million gallons per day.

